



February 20, 2012

Mrs. Jocelyn Boyd
Chief Clerk & Administrator
Public Service Commission of South Carolina
P. O. Drawer 11649
Columbia, South Carolina 29211

RE: 2011 Testing Program of Meters, Docket No. 1989-499-E

Dear Mrs. Boyd:

Under Commission Rule 103-370(1) and in accordance with the Commission's Order in Docket No. 1989-499-E, Order No. 90-131, dated February 6, 1990, Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. (PEC) is authorized to use a sample meter testing plan for testing single-phase meters and three-phase (self-contained) non-demand meters, and to periodically test other meters in accordance with approved test plans. Note that the results represent combined North and South Carolina figures.

Three groups of meters failed to pass the test criteria in 2011. Group 17 consisted of 8020 (as of January 2011; 6604 as of December 2011) Landis & Gyr single-phase self-contained time-of-use (TOU) meters; Group 813 consisted of 960 (as of January 2011; 840 as of December 2011) General Electric transformer-rated three-phase TOU meters; and Group 840 consisted of 508 (as of January of 2011; 470 as of December 2011) Transdata three-phase transformer-rated solid state meters, 202 of which were not remotely-read. Each of these groups failed because two meters in each group were found to be registering more than 102%; the test criteria specify that no more than one meter in each group may be found to register more than 102%.

Commission Rule 103-370(1) and the Commission's Order in Docket No. 89-499-E, Order No. 90-131, dated February 6, 1990, requires meter groups that fail the test criteria to be subject to corrective action consisting of "an accelerated test and maintenance program to raise the accuracy performance of the group to acceptable standards or...retirement of the meters in the group from service in an accelerated rate." All of the meters in Groups 17 and 813 will be retired or tested by the end of 2015, i.e. at an accelerated rate; most of these meters will be replaced by Advanced Metering Infrastructure (AMI) meters (see below). Of the 470 meters (as of December 2011) in Group 840, 185 will be replaced with AMI meters. The remaining 285 meters, which are installed on customers with loads in excess of 1000 kilowatts (kW), are already in an accelerated test and maintenance program. In 2010, PEC implemented an accelerated testing program for three-phase meters in all groups. This accelerated testing program calls for testing half of the population of all three-phase meters serving customers with 1000 kW or more load every year on an ongoing basis.

You will note that there are several meter groups in the tables that indicate that samples were aggregated from 2 (and in one case, 3) years to create a statistically valid sample. In each such instance PEC is including multiple histograms, one for each year represented in the sample. For clarity, PEC intends to report these situations in this fashion for all future annual reports.

In the fourth quarter of 2012 PEC will begin replacing approximately 72,000 meters in North and South Carolina with AMI (aka "Smart") meters. The installation program will be complete by the end of 2013. Of the 72,000, approximately 56,000 AMI meters will be installed on residential customers on TOU rates. The vast majority of the remaining 16,000 AMI meters will be installed on non-residential customers served by the Small General Service Time-of-Use rate schedule SGS-TOU. PEC did not install remote-read meters (MMR) on time-of-use customers during the 2005-2006 MMR implementation project because a suitable product was not available. AMI will give PEC the capability to remotely read TOU meters which had previously required a monthly on-site visit. AMI meters will not be used to replace any MMR meters.

As of 2011, PEC completed its three-year program of accelerated testing and maintenance for Group 847, which failed to pass the meter testing criteria in 2008. Group 847 consists of General Electric Type KV meters (which PEC no longer purchases), which are solid-state (but not remotely-read) three-phase, transformer-rated, demand and TOU meters. The total population of Group 847 was 3,588 meters in North and South Carolina as of January 2011, 305 fewer than last year due to attrition. As illustrated on the histogram, Group 847 passed the test criteria in 2011. Twenty-five of the 1,397 meters in the 2011 test group did not meet the 102% accuracy parameter set forth in the Commission's rules, and were replaced by comparable meters from other manufacturers.

PEC continues to conduct transmit/receive tests for all MMR meters included in PEC's yearly Selective Sample program to ensure that the meter reading data being transmitted by each meter is being received accurately by the mobile collector units. No such discrepancies were found during tests of MMR meters in 2011.

If you have any questions or require any additional information, please call me at (919) 546-6367.

Sincerely,



Len S. Anthony
General Counsel
Progress Energy Carolinas, Inc.

LSA:mhm

Enclosures

cc: Mr. John Flitter (w/ enclosures)

STAREG2130

2011 Selective Sample Program

Progress Energy - Carolinas
2011 Watthour Meter Sample
Watthour Meter Groupings

Group	Mfg.	Type(s)	Description	Test Plan	Sample Size	Population	Sample Conclusion
11	ABB/Ester	A1+, A3	Single Phase, self-contained, demand and TOU	Double Sample Phase-I	177	11,073	Pass
17	Landis & Gyr	DXMX	Single Phase, self-contained, TOU	Double Sample Phase-I	176	8,020	Fails*
18	GE	I70	Single Phase, self-contained, TOU	Double Sample Phase-I	104 (2010) 100 (2011)	5,435	Pass
20	Itron	Centron	Single-phase, self-contained & T-rated, with ERT Module	Double Sample Phase-I	180	22,730	Pass
21	Itron	C1SR	Single-phase, self-contained & T-rated, with ERT Module	Double Sample Phase-I	184	329,045	Pass
22	Itron	C1SR	Single-phase, self-contained & T-rated, with ERT Module	Double Sample Phase-I	182	26,897	Pass
23	Itron	C1SR	Single-phase, self-contained & T-rated, with ERT Module	Double Sample Phase-I	185	267,812	Pass
24	Itron	C1SR	Single-phase, self-contained & T-rated, with ERT Module	Double Sample Phase-I	184	246,401	Pass
25	Itron	C1SR	Single-phase, self-contained & T-rated, with ERT Module	Double Sample Phase-I	182	264,813	Pass
26	Itron	C1SR	Single-phase, self-contained & T-rated, with	Double Sample Phase-I	185	124,771	Pass

			ERT Module				
27	Itron	C1SR	Single-phase, self-contained & T-rated, with ERT Module	Double Sample Phase-I	184	46,578	Pass
30	General Electric	EV, KV, KV2, 170	Single Phase, self-contained & T-rated	Double Sample Phase-I	86 (2010) 86 (2011)	8,159	Pass
35	ABB/Elster	A1, A3	Single & Three Phase, self-contained & T-rated	Double Sample Phase-I	144 (2010) 124 (2011)	7,444	Pass
36	General Electric	I210	Single-phase, self-contained, with ERT Module	Double Sample Phase-I	177	14,221	Pass
46	Itron	Centron, Sentinel	Three-phase and network, self-contained with ERT Module	Double Sample Phase-I	182	37,971	Pass

* Group is targeted for replacement during AMI projected, which is to be completed by 2014.

2011 Periodic Test Program

Progress Energy - Carolinas
2011 Watthour Meter Periodic Tests
Watthour Meter Groupings

Group	Mfg.	Type(s)	Description	Test Plan	Sample Size	Population	Sample Conclusion
802	General Electric	KV2C	Three-phase and network, self-contained, T-rated, demand and TOU	Periodic -Field Test	106	1,741	Pass
813	General Electric	VRM63, VRM64	T-rated three Phase, TOU	Periodic -Field Test	72 (2010) 57 (2011)	960	Fail*
818	General Electric	V63, V64	Three-phase, T-rated, non-demand	Periodic -Field Test	143	1,514	Pass
819	General Electric	V63, V64, D64	Three-phase, T-rated, electronic demand	Periodic -Field Test	316	3,002	Pass
839	ABB/Els ter	A1, A3	Single & Three Phase, self-contained, solid state	Periodic -Field Test	66 (2010) 110 (2011)	1,310	Pass
840	Transdata	EMS, Mark-V	Three-phase, T-rated, solid state	Periodic -Field Test	161 (2011)	508 (approx. 200 less than 1000kW)	Fail**
844	General Electric	EV	Single & Three Phase, self-contained, solid state	Periodic -Field Test	48 (2009) 19 (2010) 34 (2011)	202	Pass
845	General Electric	EV, ES	Three-phase, T-rated, demand and TOU	Periodic -Field Test	399	4,134	Pass
846	ABB/Els ter	A1, A3	Three-phase, T-rated, demand and TOU	Periodic -Field Test	1,119	12,521	Pass

847	General Electric	KV	Three-phase, T-rated, demand and TOU	Periodic -Field Test	1,397	3,588	Pass***
848	Landis & Gyr	AXS4	Three-phase, T-rated, TOU	Periodic -Field Test	285	4,076	Pass
849	General Electric	KV	Three-phase and network, self-contained and T-rated, demand and TOU	Periodic -Field Test	78	1,505	Pass
861	General Electric	KV2C	Three-phase, T-rated, TOU	Periodic -Field Test	339	5,116	Pass
915	General Electric	VM65, VM66	Three Phase, self-contained, demand	Periodic -Field Test	42 (2009) 27 (2010) 16 (2011)	215	Pass
934	Landis & Gyr	AXS, AXRS	Three-phase, self-contained, demand and T-rated	Periodic -Field Test	201	3,058	Pass

* Group is targeted for replacement during AMI project, which is to be completed by 2014.

** Group Population with less than 1000kW of load to be targeted for replacement by AMI project. The remaining Population of the group with greater than or equal to 1000kW is in an accelerated testing program in which half are tested each year.

*** This is the last year of the corrective action program for this group.

PEC Meter Classification Key

Progress Energy – Carolinas

A break-down of the code used for the PEC meter classifications ** ** * (12 34 56).

For example: SS *I NI, would be a Solid-State meter either self contained or T-rated Non-initiating

For positions 12

ND = Non-Demand

TD = Thermal Demand

MD = Mechanical Demand

ED = Electronic Demand (hybrid)

TO = Time-of-use

TR = Transducer

SS = Solid-State meter

RE = Recorder

VV = Volt-Squared Hour

SD = Solid-State Demand

ST = Solid-State TOU

SP = Solid-State Prepay

For positions 34

S = Self contained

T = Transformer Rated

1 = Single Phase

3 = Three Phase

For Positions 56

NI = Non-Initiating

WI=With-Initiating

Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 11 Summary

Group Information

Manufacturer: ELSTER

Watthour Meter Type(s): A1+,A3

PE Type Code(s): H38,H39,H40,H41,H43,H44,H52,H53,H62

Meter Classification: S*S1NI

Methodology: Double Sampling Phase 1

Population: 11073

Sample Size: 177

Full Load Test Summary

Mean: 99.949

Standard Deviation: 0.0425

Number of Tests > 102%: 0

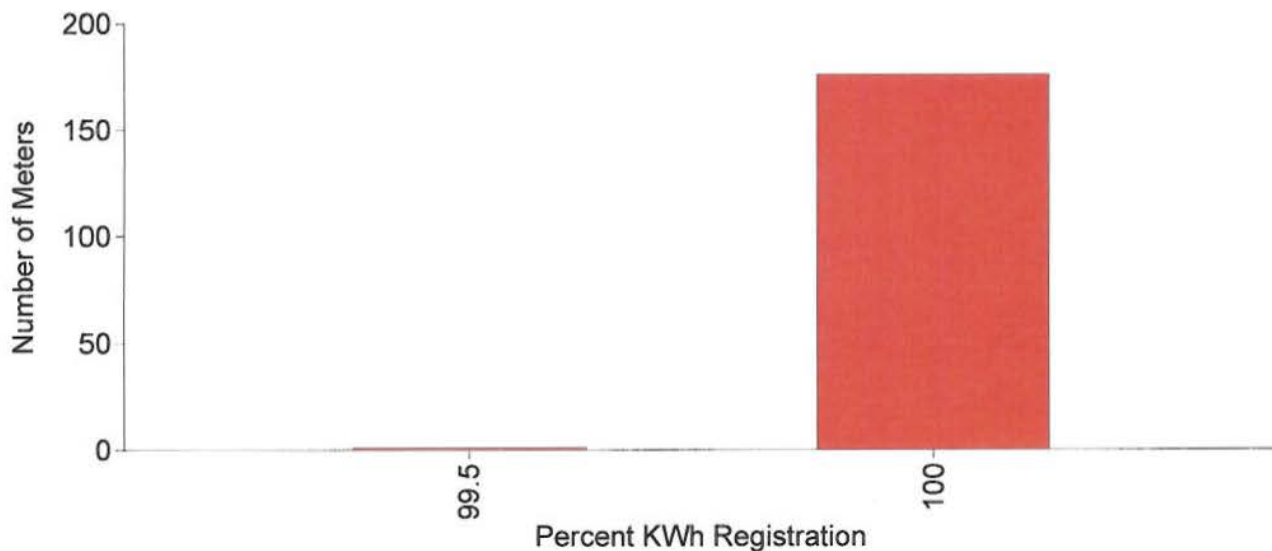
Number of Tests 98 - 102%: 177

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 11 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 17 Summary

Group Information

Manufacturer: L&G

Watthour Meter Type(s): DXMX

PE Type Code(s): U09

Meter Classification: TOS1NI

Methodology: Double Sampling Phase 1

Population: 8020

Sample Size: 176

Full Load Test Summary

Mean: 99.728

Standard Deviation: 2.2177

Number of Tests > 102%: 2

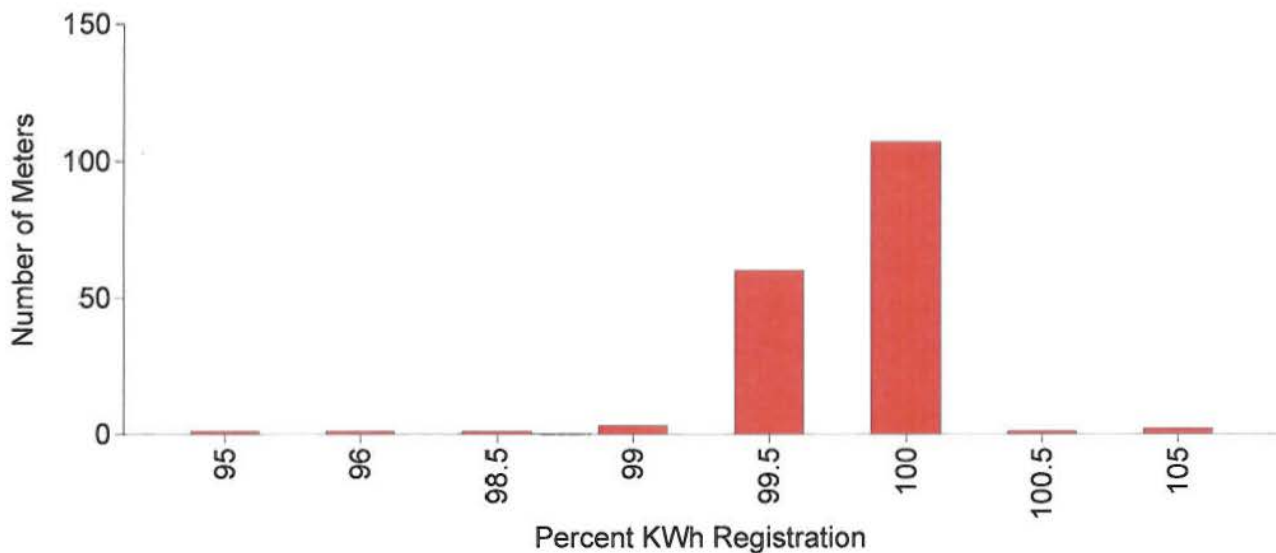
Number of Tests 98 - 102%: 172

Number of Tests < 98%: 2

Group Test Summary

This Group FAILS the Sample test since the number of fast watthour meters exceeds 1

Histogram of Group 17 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 18 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): I70

PE Type Code(s): E30,E32,E34,E36

Meter Classification: TOS1NI

Methodology: Double Sampling Phase 1

Population: 5435

Sample Size: 100

Full Load Test Summary

Mean: 100.044

Standard Deviation: 0.2647

Number of Tests > 102%: 0

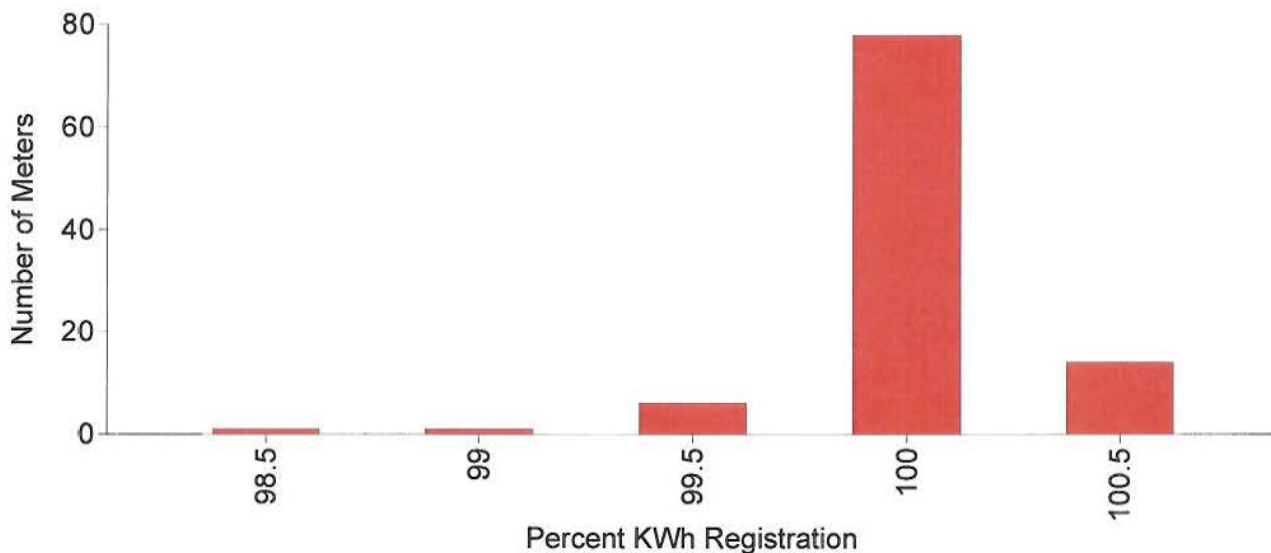
Number of Tests 98 - 102%: 100

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 18 Meter Accuracies



Progress Energy - Carolinas
2011 SELECTIVE SAMPLE
Watthour Meter Group 20 Summary

Group Information

Manufacturer: ITRON
Watthour Meter Type(s): CENTRON

PE Type Code(s): S24,M33,M34

Meter Classification: SS*1NI
Methodology: Double Sampling Phase 1
Population: 22730
Sample Size: 180

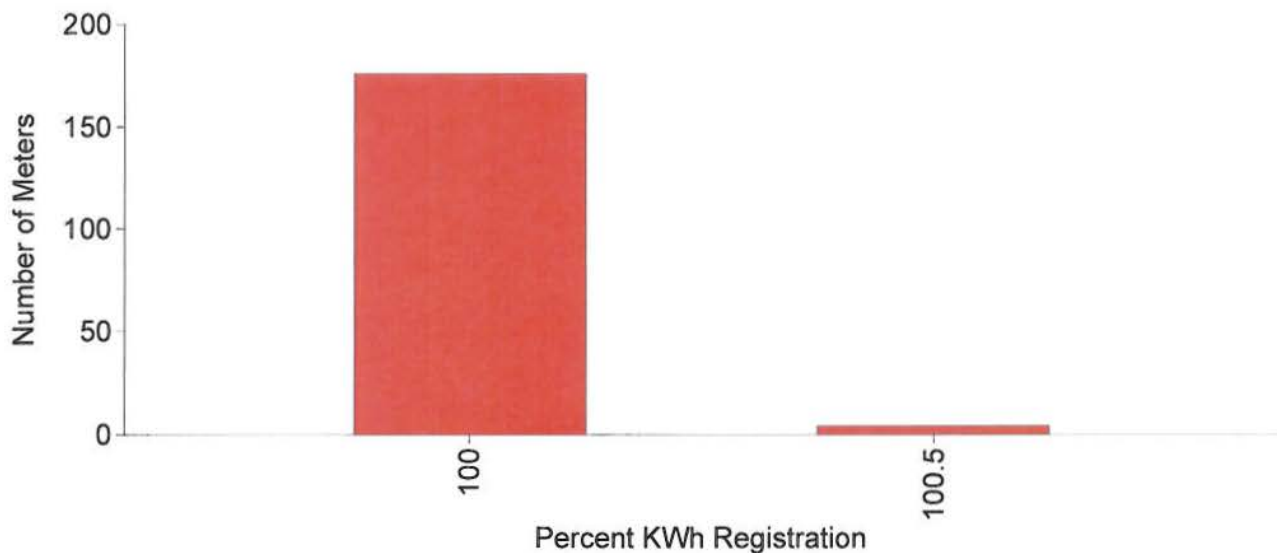
Full Load Test Summary

Mean: 100.032
Standard Deviation: 0.1096
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 180
Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 20 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 21 Summary

Group Information

Manufacturer: ITR

Watthour Meter Type(s): C1SR

PE Type Code(s): S25

Meter Classification: SSS1NI MMR

Methodology: Double Sampling Phase 1

Population: 329045

Sample Size: 184

Full Load Test Summary

Mean: 100.015

Standard Deviation: 0.1111

Number of Tests > 102%: 0

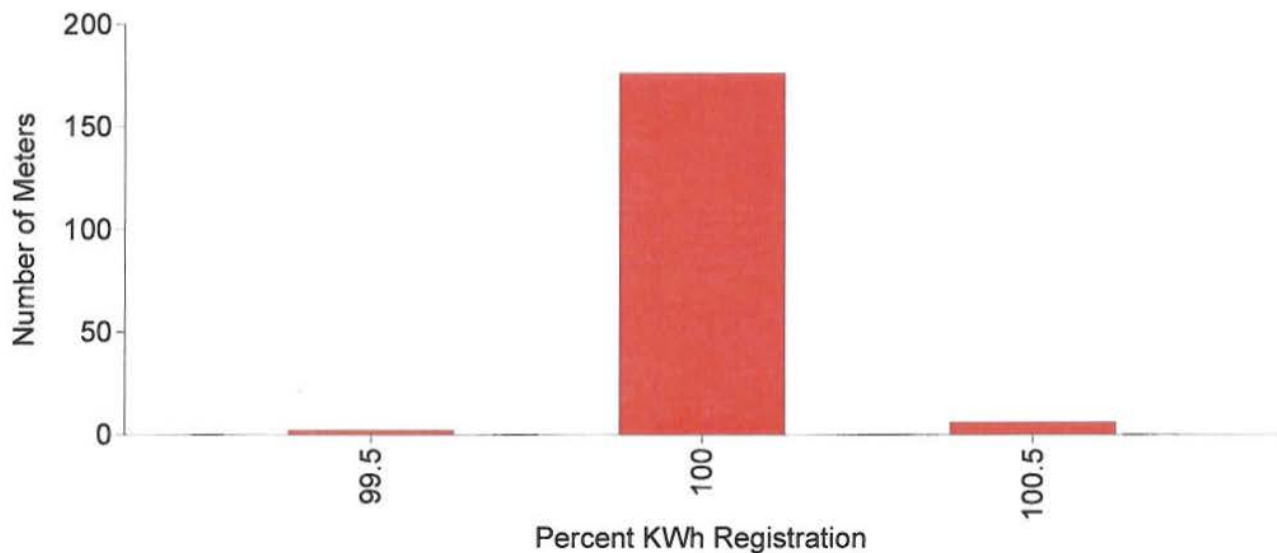
Number of Tests 98 - 102%: 184

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 21 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 22 Summary

Group Information

Manufacturer: ITR

Watthour Meter Type(s): C1SR

PE Type Code(s): S26

Meter Classification: SSS1NI MMR

Methodology: Double Sampling Phase 1

Population: 26897

Sample Size: 182

Full Load Test Summary

Mean: 100.086

Standard Deviation: 0.1282

Number of Tests > 102%: 0

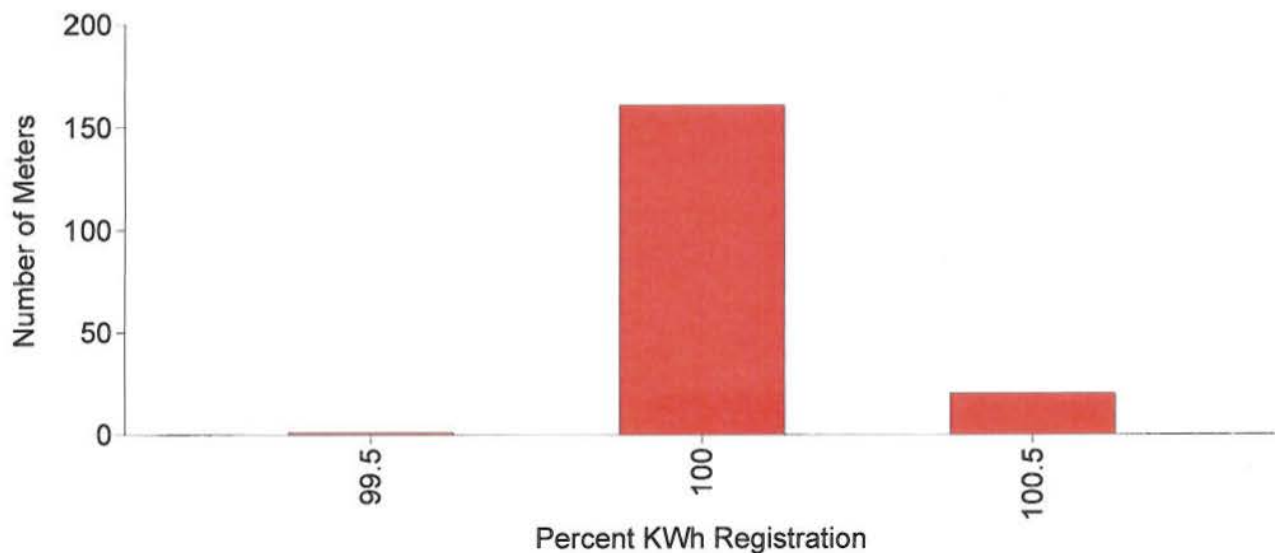
Number of Tests 98 - 102%: 182

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 22 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 23 Summary

Group Information

Manufacturer: ITR

Watthour Meter Type(s): C1SR

PE Type Code(s): S27

Meter Classification: SSS1NI MMR

Methodology: Double Sampling Phase 1

Population: 267812

Sample Size: 185

Full Load Test Summary

Mean: 99.991

Standard Deviation: 0.11

Number of Tests > 102%: 0

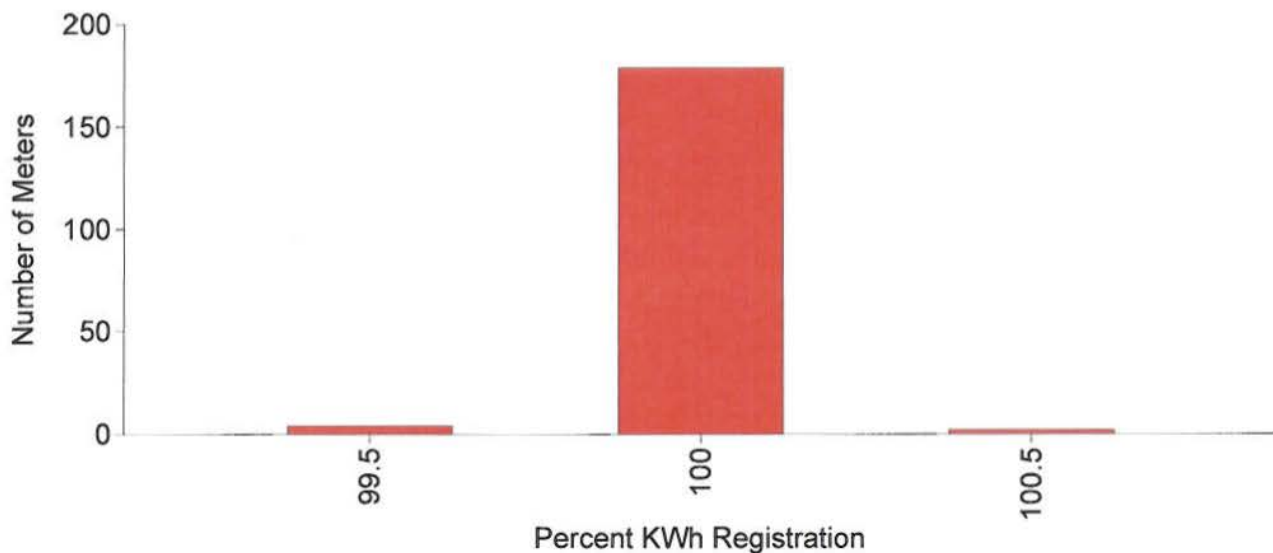
Number of Tests 98 - 102%: 185

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 23 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 24 Summary

Group Information

Manufacturer: ITR

Watthour Meter Type(s): C1SR

PE Type Code(s): S28

Meter Classification: SSS1NI MMR

Methodology: Double Sampling Phase 1

Population: 246401

Sample Size: 184

Full Load Test Summary

Mean: 100.002

Standard Deviation: 0.1111

Number of Tests > 102%: 0

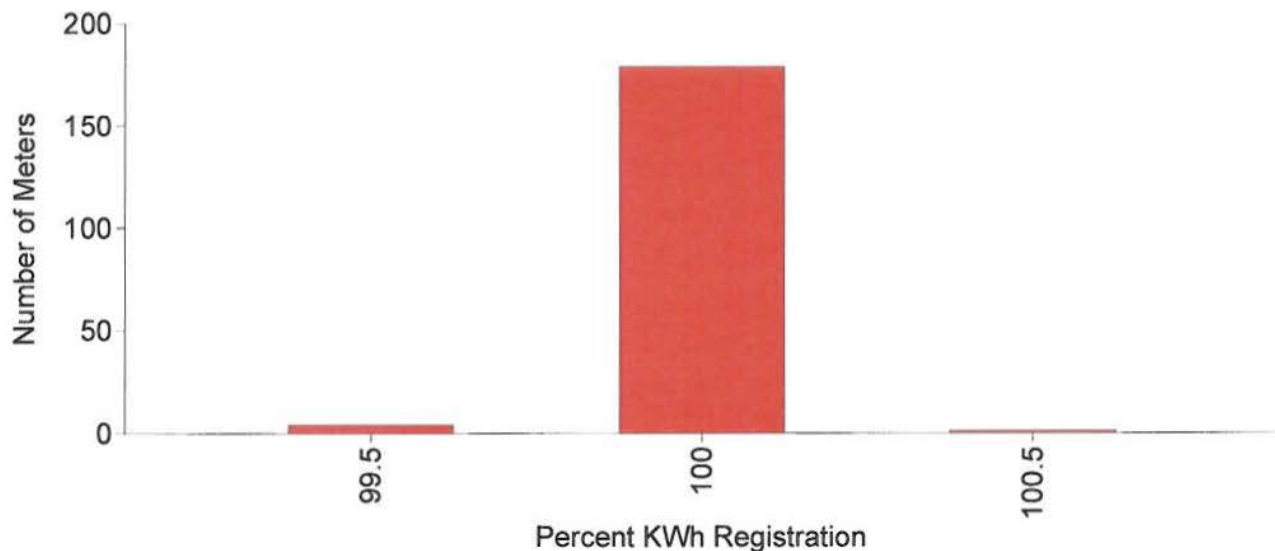
Number of Tests 98 - 102%: 184

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 24 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 25 Summary

Group Information

Manufacturer: ITR

Watthour Meter Type(s): CENTRON (C1SR)

PE Type Code(s): S29

Meter Classification: SSS1NI MMR

Methodology: Double Sampling Phase 1

Population: 264813

Sample Size: 182

Full Load Test Summary

Mean: 99.98

Standard Deviation: 0.1091

Number of Tests > 102%: 0

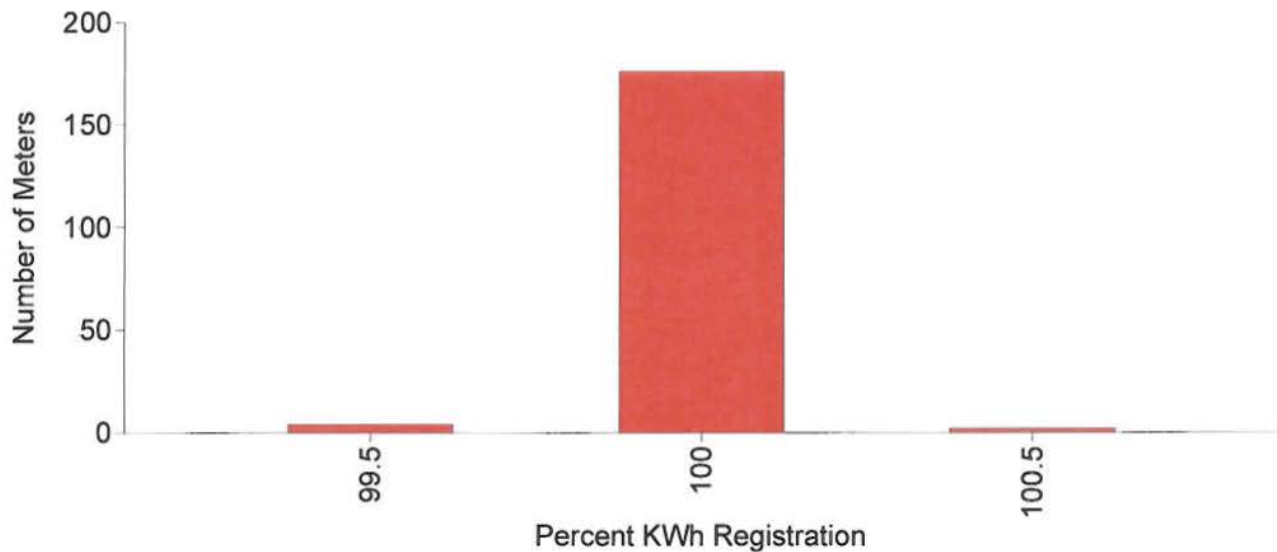
Number of Tests 98 - 102%: 182

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 25 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 26 Summary

Group Information

Manufacturer: ITR

Watthour Meter Type(s): CENTRON (C1SR)

PE Type Code(s): S30

Meter Classification: SSS1NI MMR

Methodology: Double Sampling Phase 1

Population: 124771

Sample Size: 185

Full Load Test Summary

Mean: 99.975

Standard Deviation: 0.1118

Number of Tests > 102%: 0

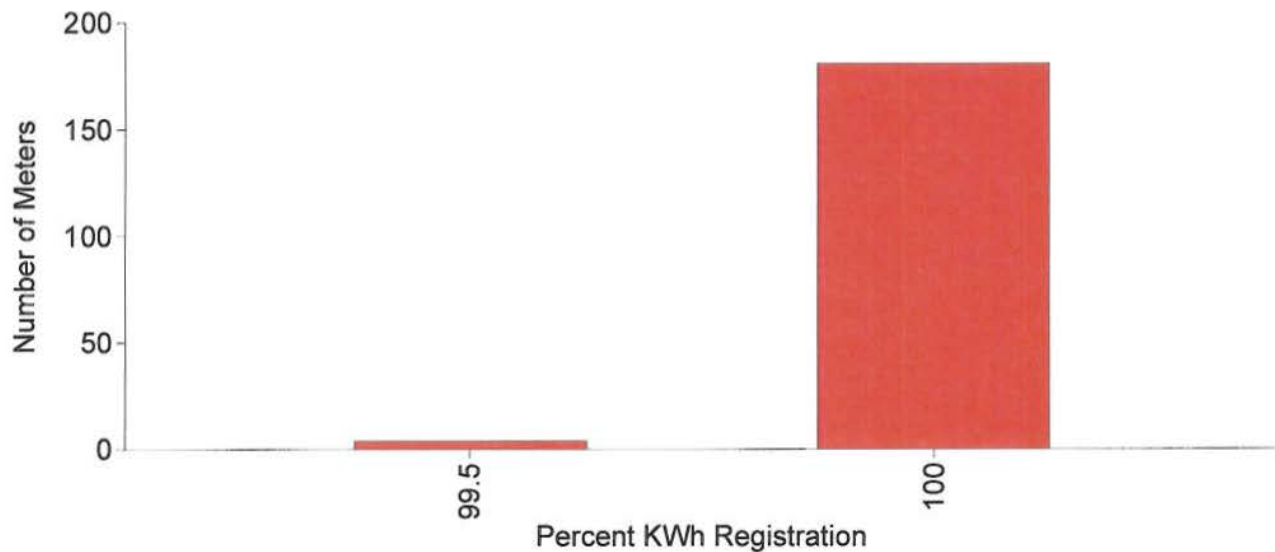
Number of Tests 98 - 102%: 185

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 26 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 27 Summary

Group Information

Manufacturer: ITRON

Watthour Meter Type(s): CENTRON (CISR)

PE Type Code(s): S31

Meter Classification: SSS1NI

Methodology: Double Sampling Phase 1

Population: 46578

Sample Size: 184

Full Load Test Summary

Mean: 99.997

Standard Deviation: 0.1002

Number of Tests > 102%: 0

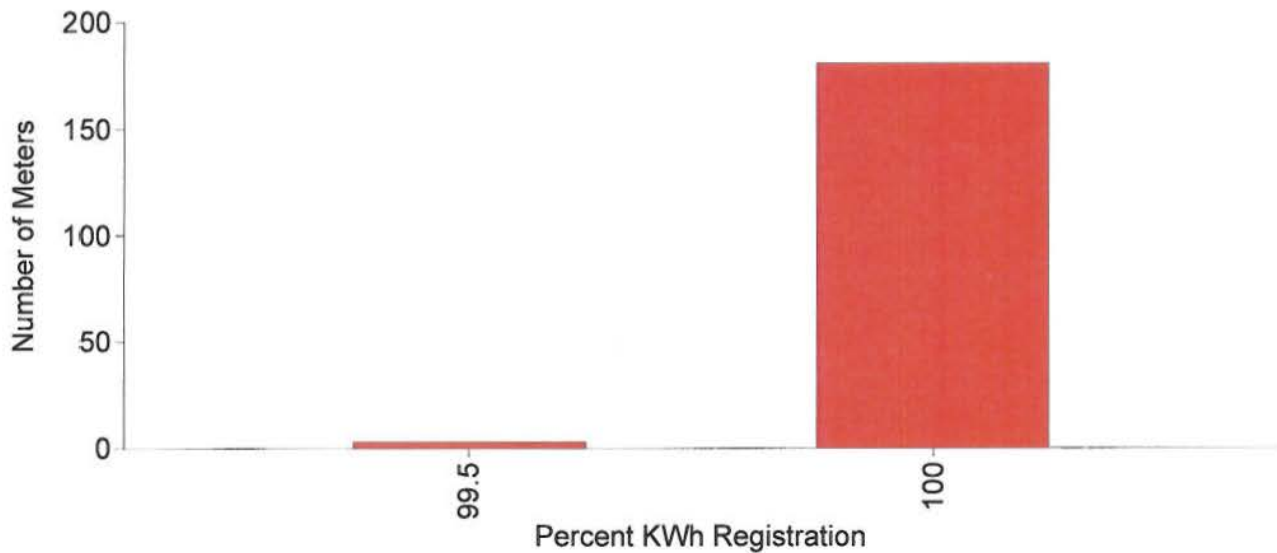
Number of Tests 98 - 102%: 184

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 27 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 30 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): EV,KV,KV2,I70

PE Type Code(s): E40,E41,E42,E43,E44,E45,E46,E47,E48,E49,E50,E51,E52,E53,LM9,LN5,LR8,
LT3,LT6,LV5

Meter Classification: S**1NI

Methodology: Double Sampling Phase 1

Population: 8159

Sample Size: 86

Full Load Test Summary

Mean: 99.957

Standard Deviation: 0.3716

Number of Tests > 102%: 1

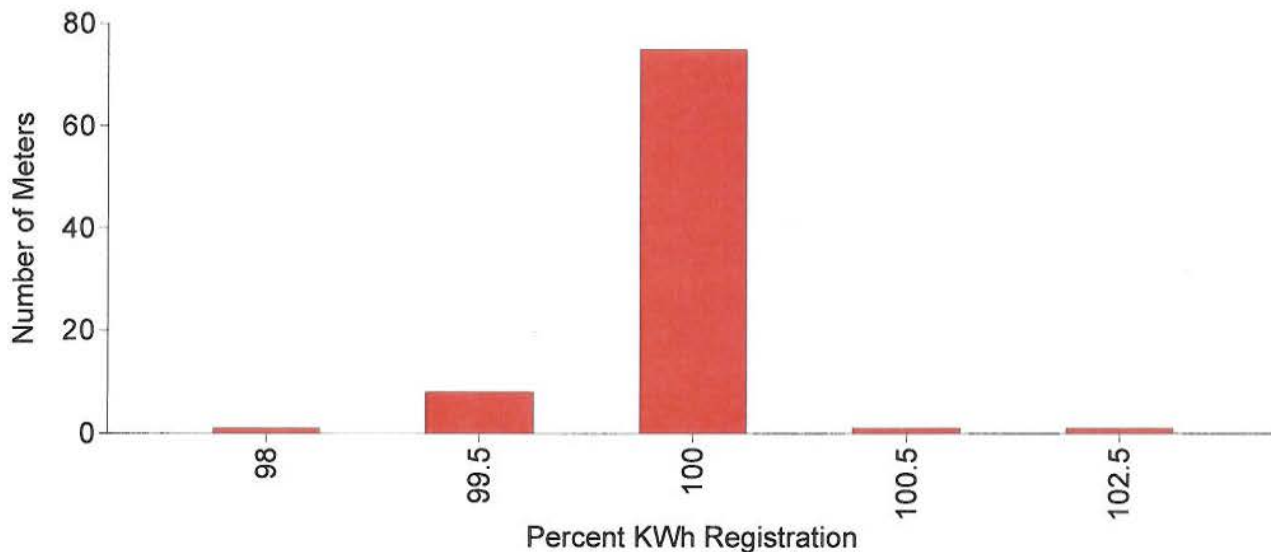
Number of Tests 98 - 102%: 84

Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

Histogram of Group 30 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 35 Summary

Group Information

Manufacturer: ABB/ELSTER

Watthour Meter Type(s): A1,A3

PE Type Code(s): H21,H22,H23,H24,H25,H26,H28,H30,H31,H32,H33,H34,H35,H36,H37,H42,H45,
H46,H47,H48,H49,H50,H51,H54,H55,H56,H57,H58,H59,H60,H61,TE4,TE5,TE6,TE8,
TF1,TG6,TG7,TG9,TH5,TK5,TK6,TL6,TN3,TN9,TO1,TP1,TQ7,Y48,Y63,Y68,Y74

Meter Classification: S****I

Methodology: Double Sampling Phase 1

Population: 7444

Sample Size: 124

Full Load Test Summary

Mean: 99.98

Standard Deviation: 0.0621

Number of Tests > 102%: 0

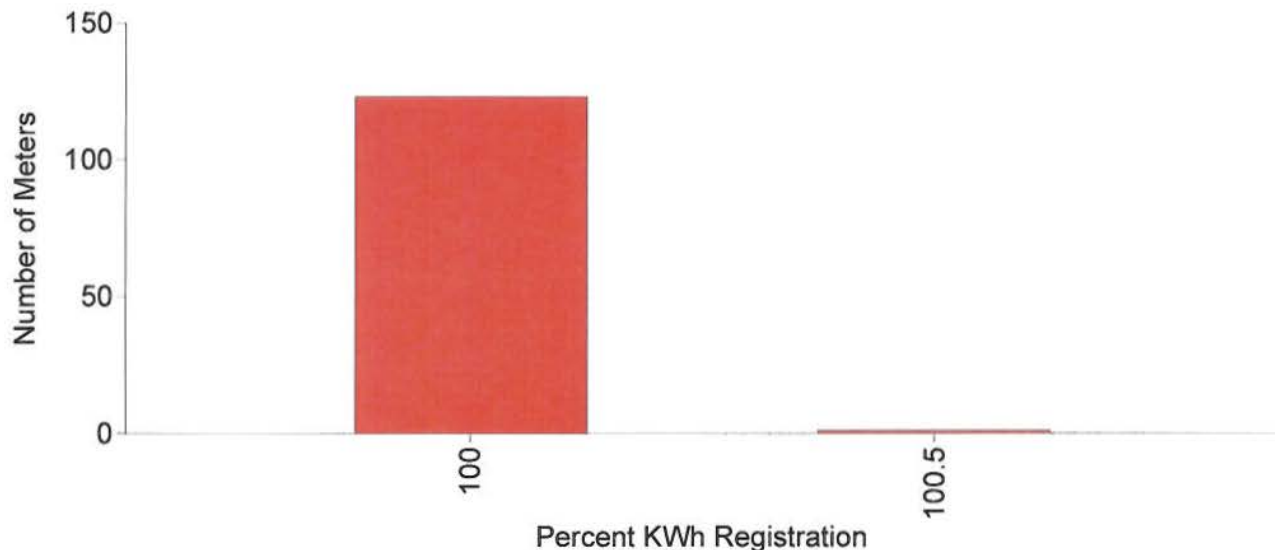
Number of Tests 98 - 102%: 124

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 3

Histogram of Group 35 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 36 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): I-210

PE Type Code(s): G42

Meter Classification: SSS1NI

Methodology: Double Sampling Phase 1

Population: 14221

Sample Size: 177

Full Load Test Summary

Mean: 99.98

Standard Deviation: 0.093

Number of Tests > 102%: 0

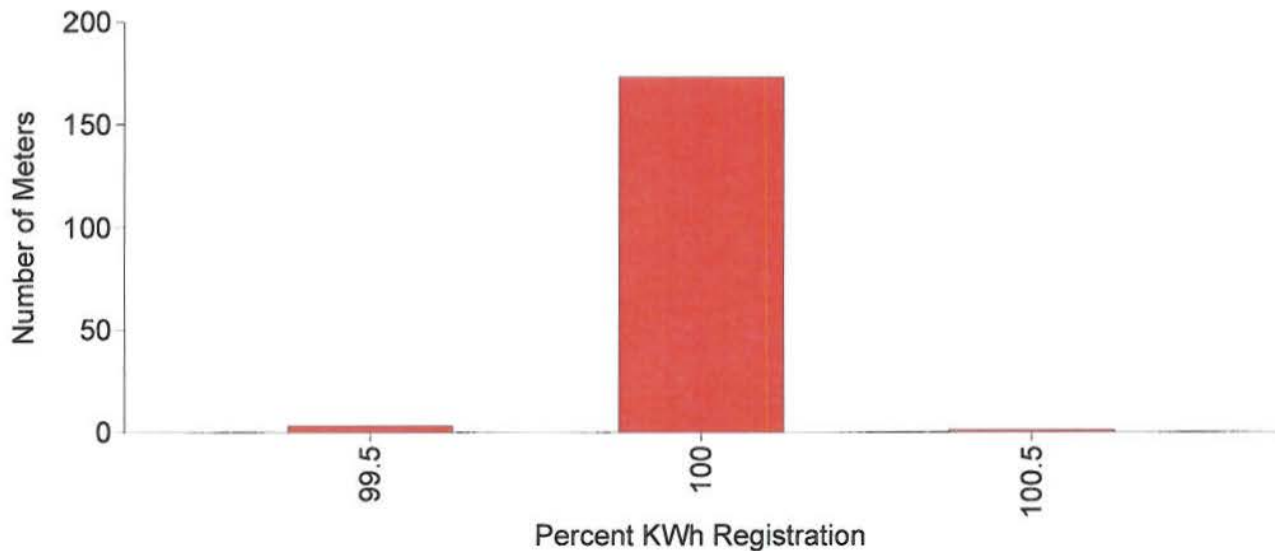
Number of Tests 98 - 102%: 177

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 36 Meter Accuracies



Progress Energy - Carolinas

2011 SELECTIVE SAMPLE

Watthour Meter Group 46 Summary

Group Information

Manufacturer: ITRON

Watthour Meter Type(s): CENTRON,SENTINEL

PE Type Code(s): N16,N17,N18,N19

Meter Classification: SSS*NI

Methodology: Double Sampling Phase 1

Population: 37971

Sample Size: 182

Full Load Test Summary

Mean: 99.799

Standard Deviation: 2.4786

Number of Tests > 102%: 0

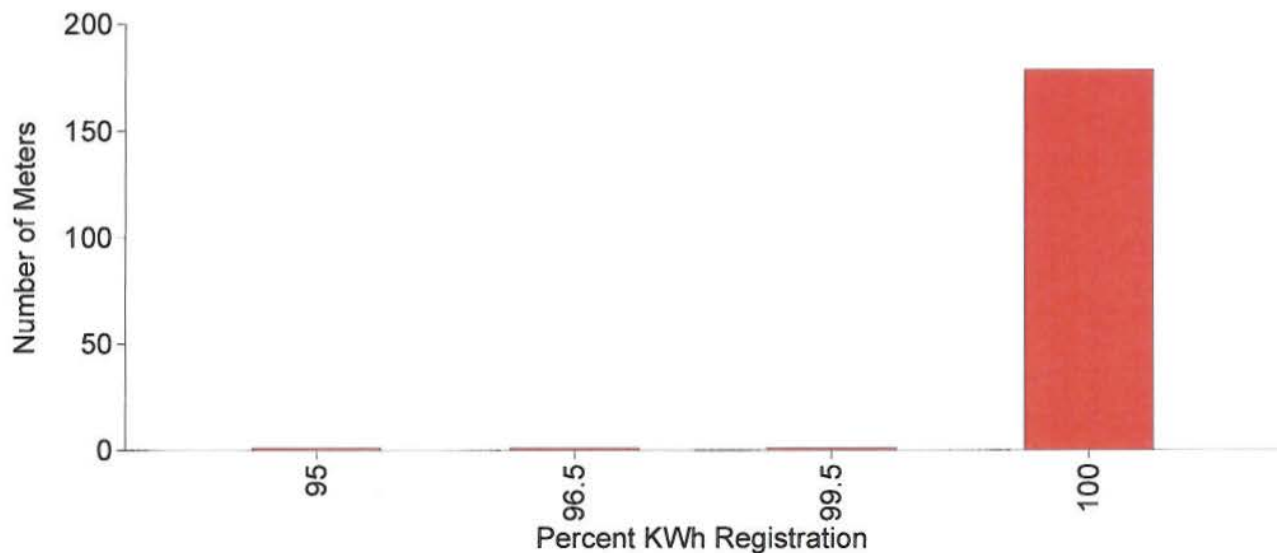
Number of Tests 98 - 102%: 180

Number of Tests < 98%: 2

Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 1

Histogram of Group 46 Meter Accuracies



Progress Energy - Carolinas

2011 FIELD PERIODIC

Watthour Meter Group 802 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): KV2C

PE Type Code(s): LV3, LV4, RB1, RB4, RB6, RB7

Meter Classification: S***NI

Methodology: Periodic Test

Population: 1741

Sample Size: 106

Full Load Test Summary

Mean: 99.929

Standard Deviation: 0.124

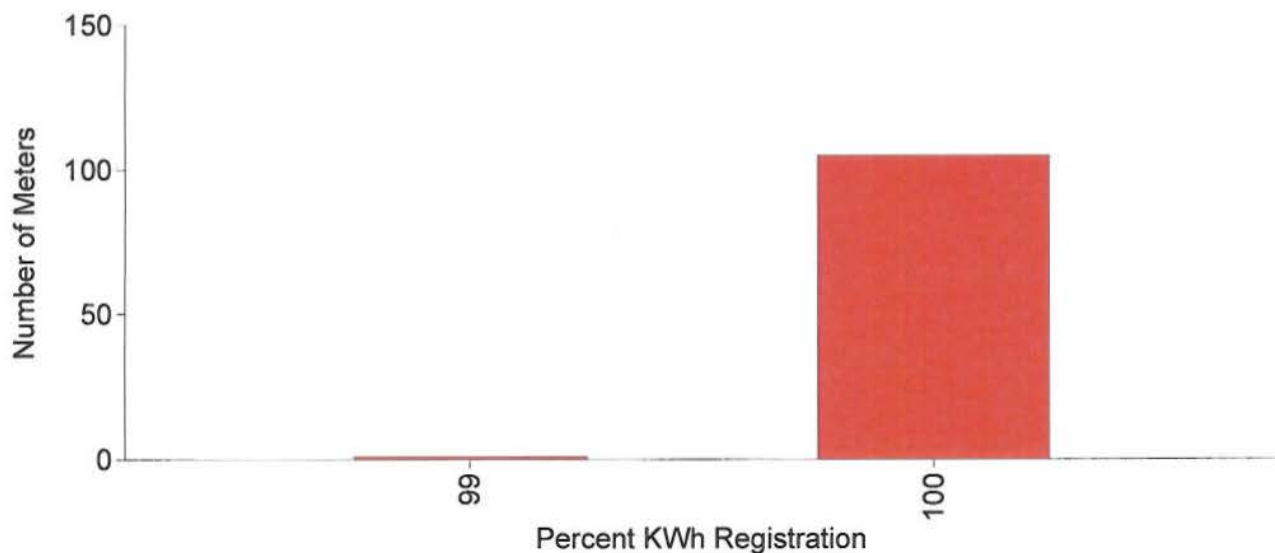
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 106

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 802 Meter Accuracies



Progress Energy - Carolinas

2011 FIELD PERIODIC

Watthour Meter Group 813 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VRM63,VRM64

PE Type Code(s): LB9,LC8,LG6,LG8,LH9

Meter Classification: TOT3NI

Methodology: Periodic Test

Population: 960

Sample Size: 57

Full Load Test Summary

Mean: 98.975

Standard Deviation: 8.6601

Number of Tests > 102%: 0

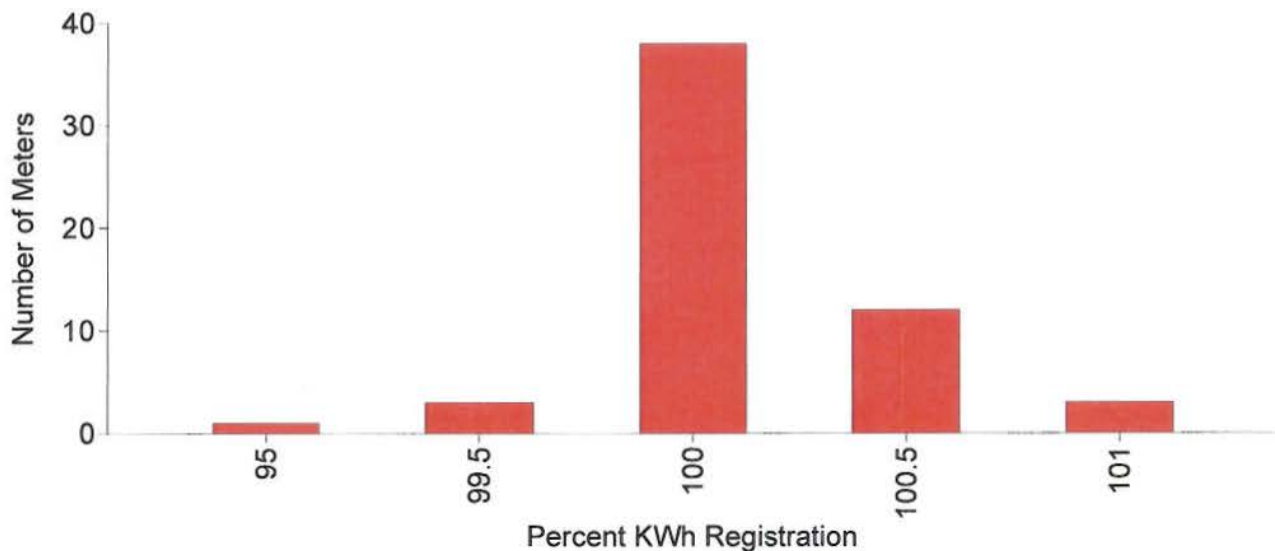
Number of Tests 98 - 102%: 56

Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 1

Histogram of Group 813 Meter Accuracies



Progress Energy - Carolinas

2010 FIELD PERIODIC

Watthour Meter Group 813 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VRM63,VRM64

PE Type Code(s): LB9,LC8,LG6,LG8,LH9

Meter Classification: TOT3NI

Methodology: Periodic Test

Population: 1017

Sample Size: 72

Full Load Test Summary

Mean: 100.477

Standard Deviation: 1.8309

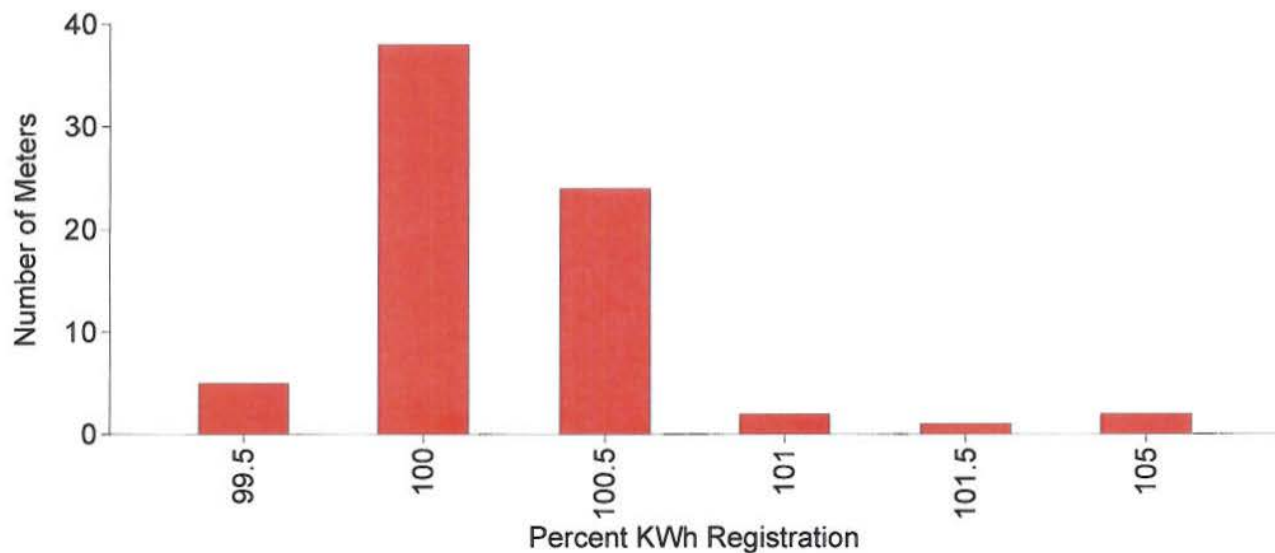
Number of Tests > 102%: 2

Number of Tests 98 - 102%: 70

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 813 Meter Accuracies



Progress Energy - Carolinas

2011 FIELD PERIODIC

Watthour Meter Group 818 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): V63,V64

PE Type Code(s): L42,L45,L48,L64,LD2,LD3,LE7,LE8,LE9,LF1,LF7,LF8

Meter Classification: NDT3NI

Methodology: Periodic Test

Population: 1514

Sample Size: 143

Full Load Test Summary

Mean: 99.757

Standard Deviation: 2.9052

Number of Tests > 102%: 0

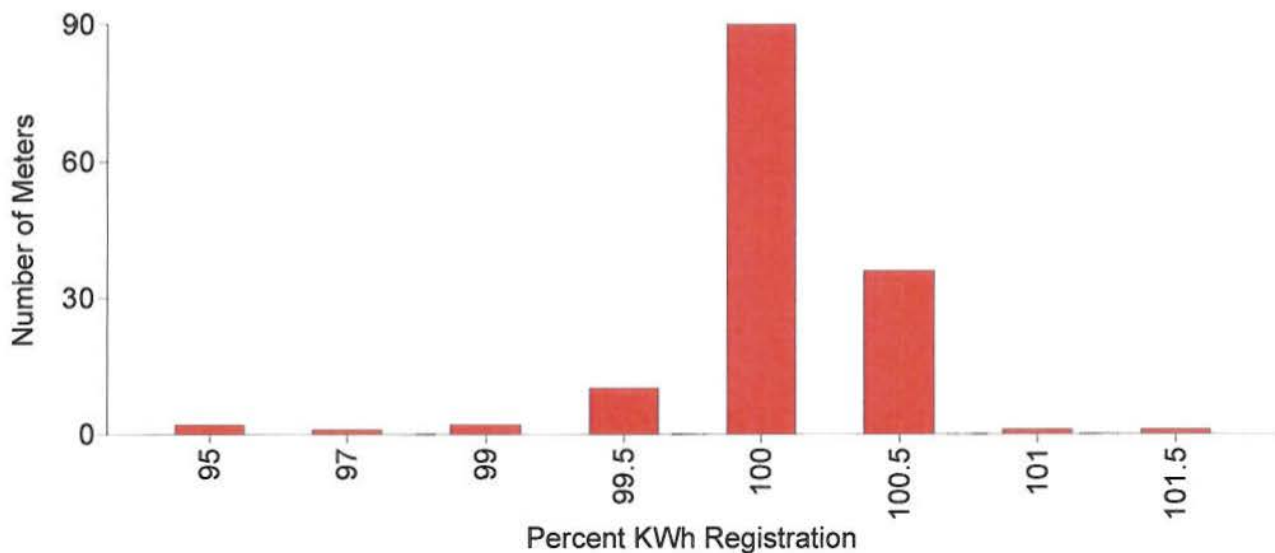
Number of Tests 98 - 102%: 140

Number of Tests < 98%: 3

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 1

Histogram of Group 818 Meter Accuracies



Progress Energy - Carolinas
2011 FIELD PERIODIC
Watthour Meter Group 819 Summary

Group Information

Manufacturer: GE
Watthour Meter Type(s): V63,V64,D64

PE Type Code(s): LB3, LB4, LB5, LC1, LC5, LD1, LD4, LF2, LF4, LF5, LF6, LF9

Meter Classification: EDT3NI
Methodology: Periodic Test
Population: 3002
Sample Size: 316

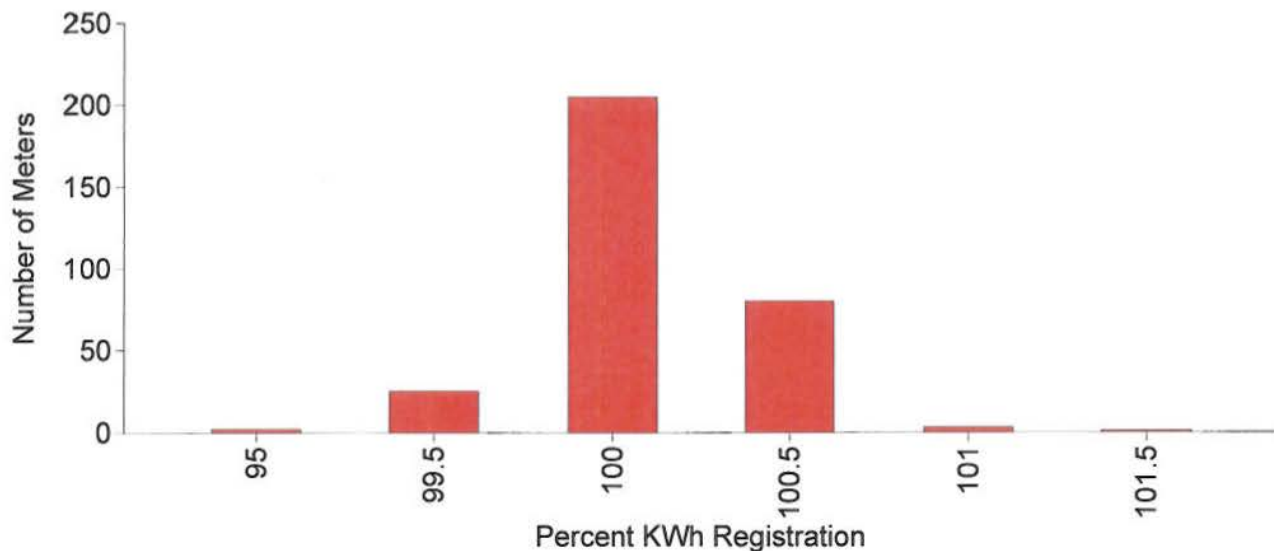
Full Load Test Summary

Mean: 99.779
Standard Deviation: 3.9599
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 314
Number of Tests < 98%: 2

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 5

Histogram of Group 819 Meter Accuracies



Progress Energy - Carolinas
2011 FIELD PERIODIC
Watthour Meter Group 839 Summary

Group Information

Manufacturer: ABB/ELSTER
Watthour Meter Type(s): A1,A3

PE Type Code(s): Y40,Y41,Y42,Y49,Y50,Y51,Y54,Y58,Y60,Y61,Y62,Y64,Y65,Y66,Y67,Y69,Y70,
Y71,Y72,Y73,Y75,Y76,Y77,Y78,Y79,Y80,Y81,Y82,Y83,Y84,Y85,Y86

Meter Classification: S*S**I
Methodology: Periodic Test
Population: 1310
Sample Size: 110

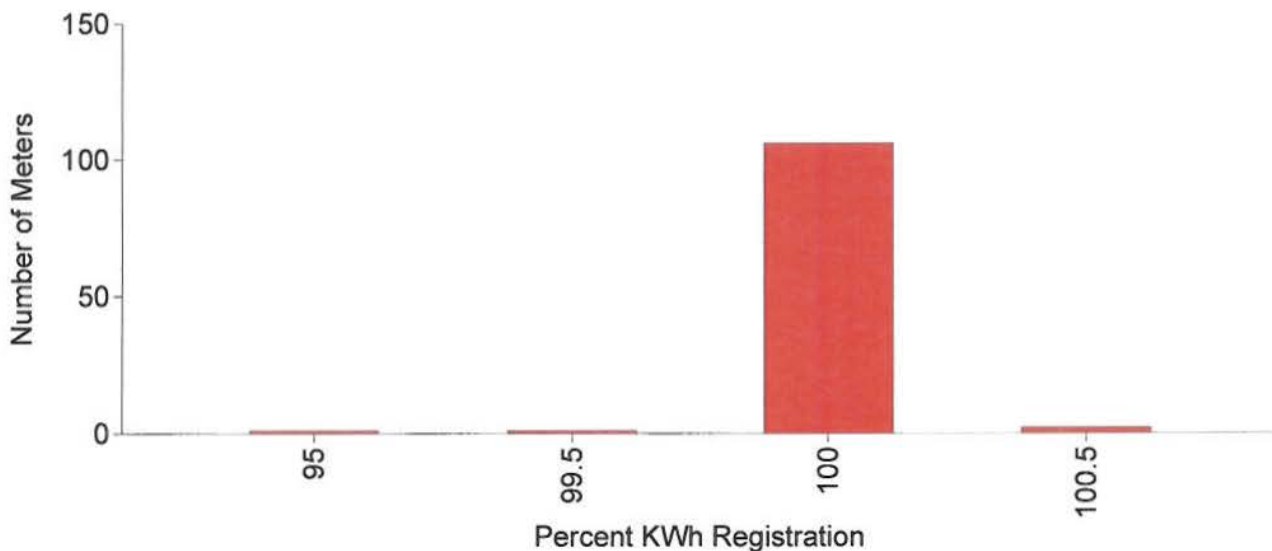
Full Load Test Summary

Mean: 99.579
Standard Deviation: 3.6541
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 109
Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 2

Histogram of Group 839 Meter Accuracies



Progress Energy - Carolinas
2011 FIELD PERIODIC
Watthour Meter Group 840 Summary

Group Information

Manufacturer: TD
Watthour Meter Type(s): MARK V,EMS

PE Type Code(s): Z03,Z04,Z05,Z06,Z07,Z08,Z09,Z17,Z18,Z19,Z20,Z21,Z31,Z32,Z34,Z35,Z38,
Z39,Z40,Z41,Z42,Z43,Z44,Z45,Z46,Z47,Z48,Z49,Z50,Z51,Z52,Z53,Z54,Z55,Z56,
Z57,Z58,Z59,Z61,Z62,Z63,Z64,Z65,Z66,Z67,Z68,Z69,Z70,Z71,Z72,Z73,Z74,Z75,
Z76,Z77,Z78,Z79,Z80

Meter Classification: SST3WI
Methodology: Periodic Test
Population: 508
Sample Size: 161

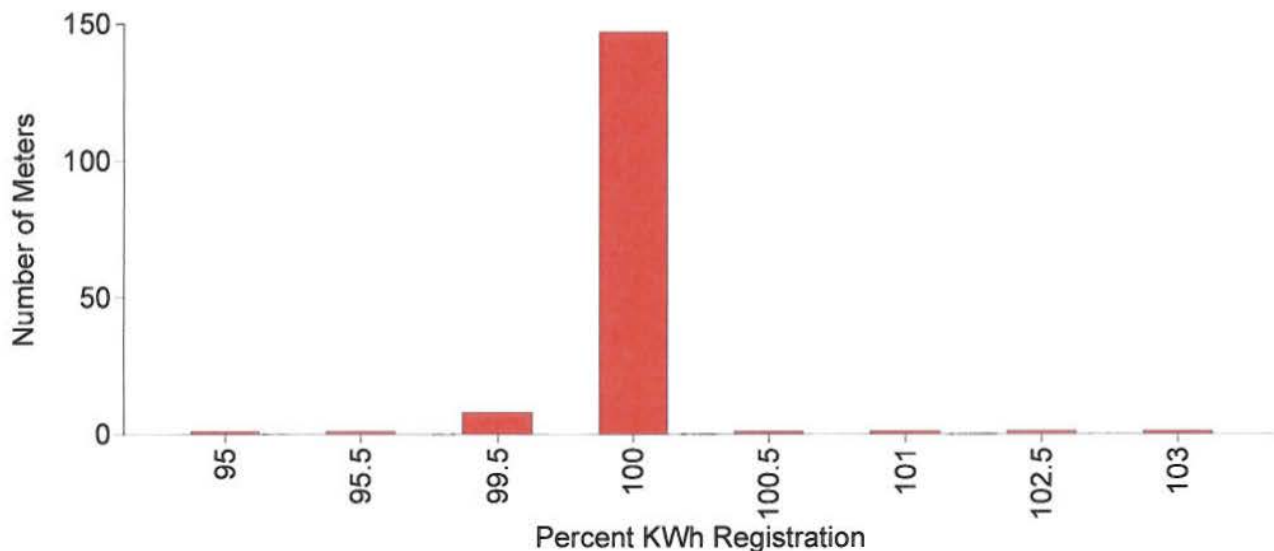
Full Load Test Summary

Mean: 99.6
Standard Deviation: 3.9562
Number of Tests > 102%: 2
Number of Tests 98 - 102%: 157
Number of Tests < 98%: 2

Group Test Summary

This Group FAILS the Periodic test since the number of fast watthour meters exceeds 1

Histogram of Group 840 Meter Accuracies



Progress Energy - Carolinas
2011 FIELD PERIODIC
Watthour Meter Group 844 Summary

Group Information

Manufacturer: GE
Watthour Meter Type(s): EV

PE Type Code(s): R87,R88,R89,R90,R91,R92,R93,R94,R95

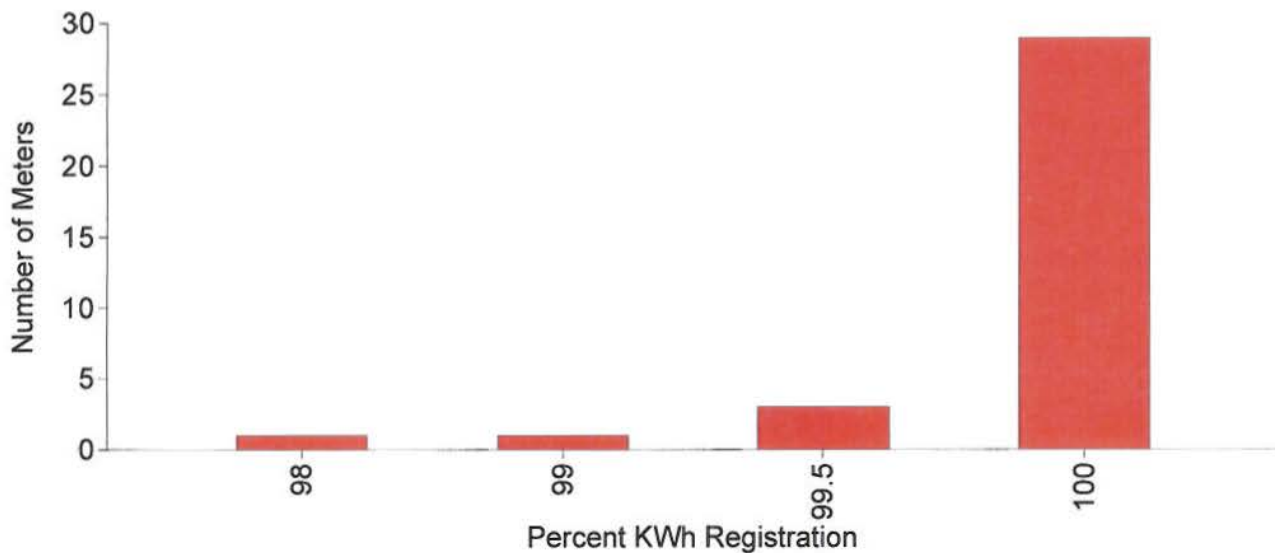
Meter Classification: S*S*NI
Methodology: Periodic Test
Population: 202
Sample Size: 34

Full Load Test Summary

Mean: 99.869
Standard Deviation: 0.394
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 34
Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 844 Meter Accuracies



Progress Energy - Carolinas

2011 FIELD PERIODIC

Watthour Meter Group 845 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): EV,ES4

PE Type Code(s): LJ5,LJ6,LJ7,LJ8,LJ9,LK1,LK5,LK6,LK7,LK9,LL1,LL2,LL3,LL4,LL6,LL7,LL8,
LL9,LM1,LM2,LM3,LM4,LM5,LM6,LM7,LN1,LN2,LN4

Meter Classification: S*T3*I

Methodology: Periodic Test

Population: 4134

Sample Size: 399

Full Load Test Summary

Mean: 99.388

Standard Deviation: 6.5459

Number of Tests > 102%: 2

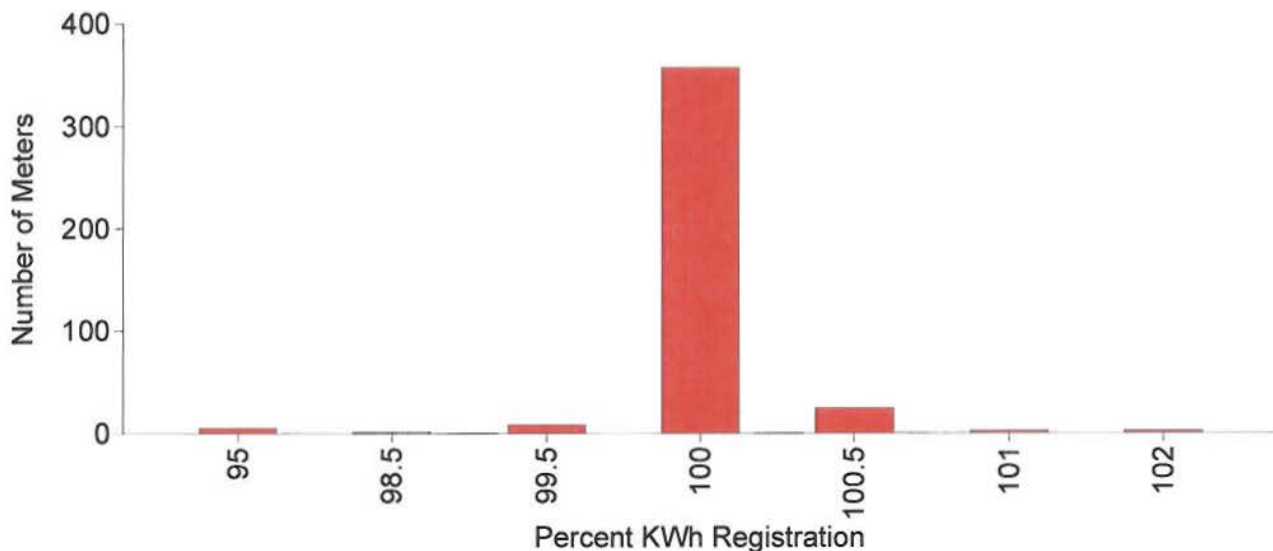
Number of Tests 98 - 102%: 392

Number of Tests < 98%: 5

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 7

Histogram of Group 845 Meter Accuracies



Progress Energy - Carolinas

2011 FIELD PERIODIC

Watthour Meter Group 846 Summary

Group Information

Manufacturer: ABB/ELSTER

Watthour Meter Type(s): A1,A3

PE Type Code(s): T98,TA3,TA4,TA5,TA6,TA7,TA8,TA9,TB1,TC6,TC7,TC8,TC9,TD5,TD6,TD7,TD8,TD9,TE1,TF3,TF4,TF5,TF6,TF7,TH1,TH2,TH3,TH4,TH6,TH7,TH8,TH9,TJ1,TJ2,TJ3,TJ4,TJ5,TJ6,TJ7,TJ8,TJ9,TK1,TK2,TK3,TK4,TK7,TK8,TK9,TL1,TL2,TL3,TL4,TL5,TL7,TL8,TL9,TM1,TM2,TM3,TM4,TM5,TM6,TM7,TM8,TM9,TN1,TN2,TN4,TN5,TN6,TN7,TN8,TO2,TO3,TO4,TO5,TO6,TO7,TO8,TO9,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TQ1,TQ2,TQ3,TQ4,TQ5,TQ6,TQ8,TQ9,TR1,TR2,TR3,TR4,TR5,TR6,TR7,TR8

Meter Classification: S*T3*I

Methodology: Periodic Test

Population: 12521

Sample Size: 1119

Full Load Test Summary

Mean: 99.831

Standard Deviation: 2.9879

Number of Tests > 102%: 0

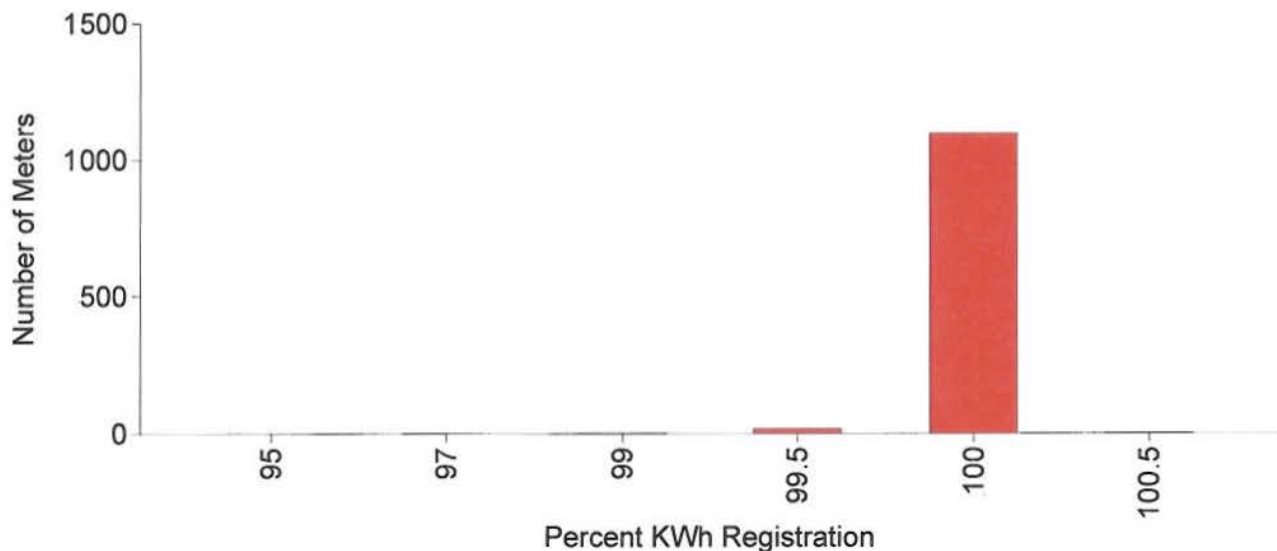
Number of Tests 98 - 102%: 1117

Number of Tests < 98%: 2

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 25

Histogram of Group 846 Meter Accuracies



Progress Energy - Carolinas
2011 KV CORRECTIVE ACTION
Watthour Meter Group 847 Summary

Group Information

Manufacturer: GE
Watthour Meter Type(s): KV

PE Type Code(s): LN6, LN7, LN8, LN9, LP2, LP3, LP4, LP5, LP6, LP7, LP8, LP9, LR1, LR2, LR3, LR9, LT1, LT2

Meter Classification: S*T3*I
Methodology: Periodic Test
Population: 3588
Sample Size: 1397

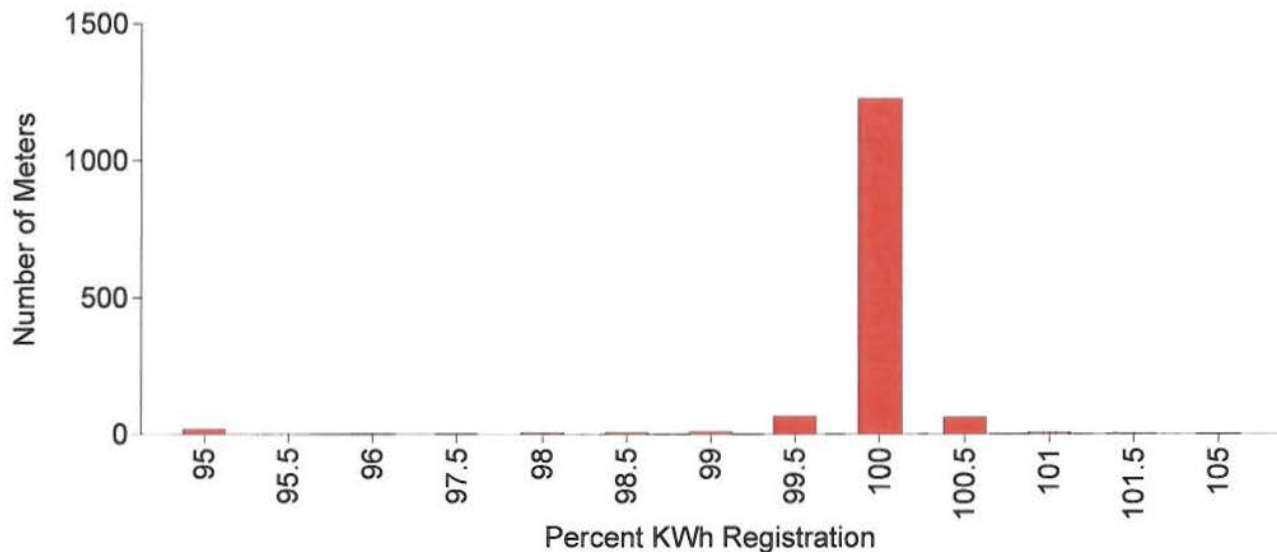
Full Load Test Summary

Mean: 100.927
Standard Deviation: 34.2038
Number of Tests > 102%: 2
Number of Tests 98 - 102%: 1372
Number of Tests < 98%: 23

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 28

Histogram of Group 847 Meter Accuracies



Progress Energy - Carolinas

2011 FIELD PERIODIC

Watthour Meter Group 848 Summary

Group Information

Manufacturer: L&G

Watthour Meter Type(s): AXS4

PE Type Code(s): K15,K16

Meter Classification: STT3NI

Methodology: Periodic Test

Population: 4076

Sample Size: 285

Full Load Test Summary

Mean: 100

Standard Deviation: 0.4802

Number of Tests > 102%: 0

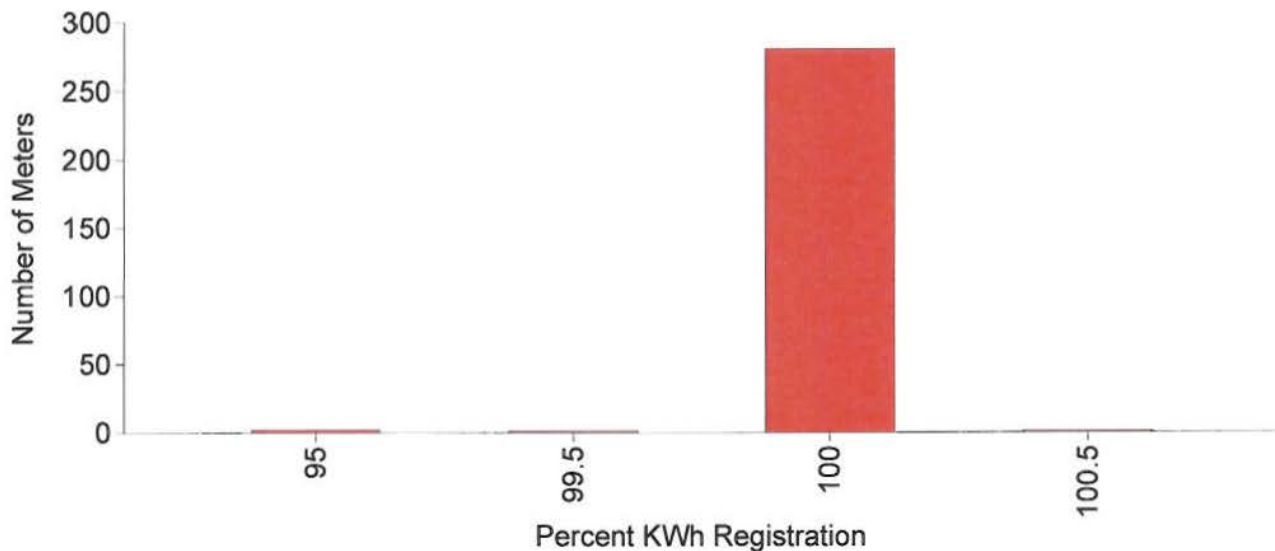
Number of Tests 98 - 102%: 283

Number of Tests < 98%: 2

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 4

Histogram of Group 848 Meter Accuracies



Progress Energy - Carolinas
2011 FIELD PERIODIC
Watthour Meter Group 849 Summary

Group Information

Manufacturer: GE
Watthour Meter Type(s): KV

PE Type Code(s): LT4,LT5,R98,R99,RA2,RA3,RA5,RA6,RA7,RA8,RA9,RB2,RB3,RB5

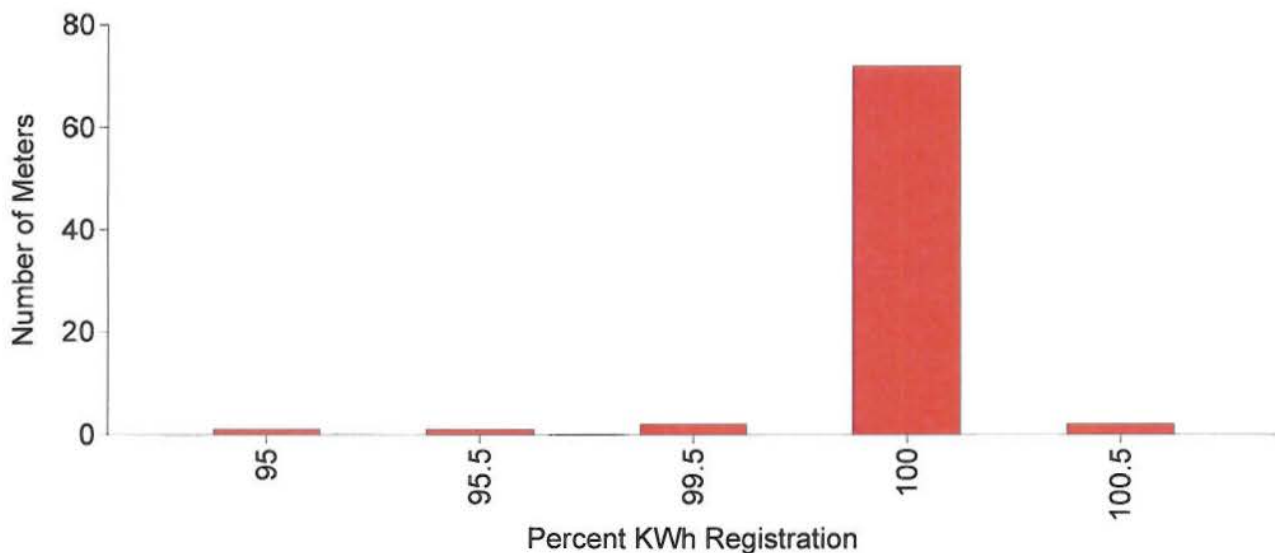
Meter Classification: S****I
Methodology: Periodic Test
Population: 1505
Sample Size: 78

Full Load Test Summary

Mean: 98.648
Standard Deviation: 11.2426
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 76
Number of Tests < 98%: 2

Group Test Summary

Histogram of Group 849 Meter Accuracies



Progress Energy - Carolinas

2011 FIELD PERIODIC

Watthour Meter Group 861 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): KV2C

PE Type Code(s): LT7,LT8,LT9,LV2

Meter Classification: STT3*I

Methodology: Periodic Test

Population: 4882

Sample Size: 339

Full Load Test Summary

Mean: 99.737

Standard Deviation: 2.4141

Number of Tests > 102%: 0

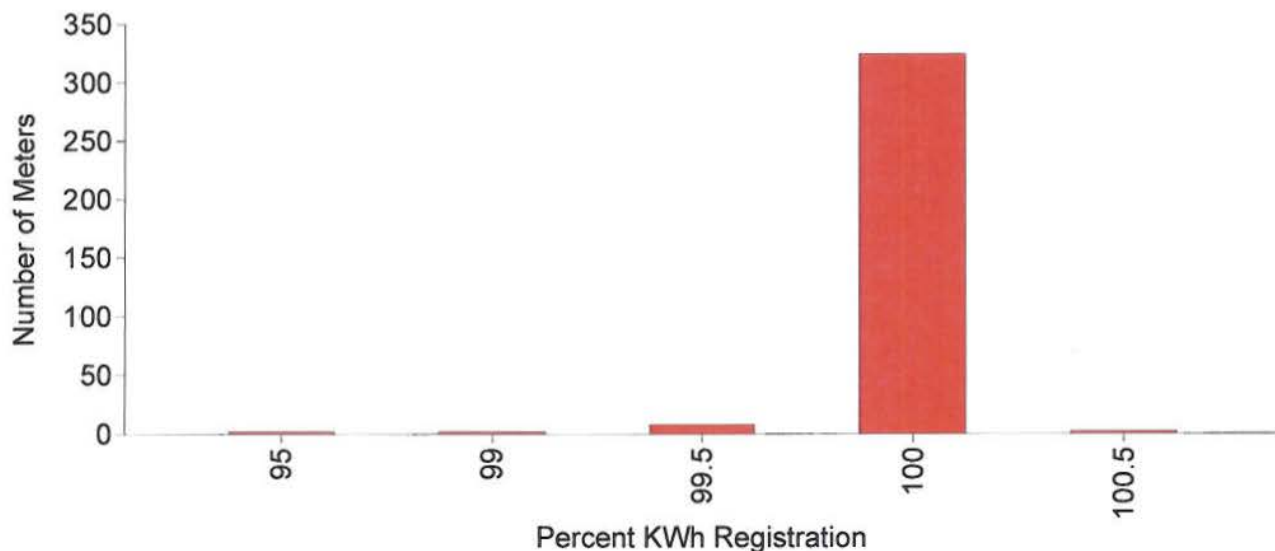
Number of Tests 98 - 102%: 337

Number of Tests < 98%: 2

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 5

Histogram of Group 861 Meter Accuracies



Progress Energy - Carolinas

2011 SHOP PERIODIC

Watthour Meter Group 915 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VM65,VM66

PE Type Code(s): R68,R69,R70

Meter Classification: EDS3NI

Methodology: Periodic Test

Population: 215

Sample Size: 16

Full Load Test Summary

Mean: 99.988

Standard Deviation: 0.3182

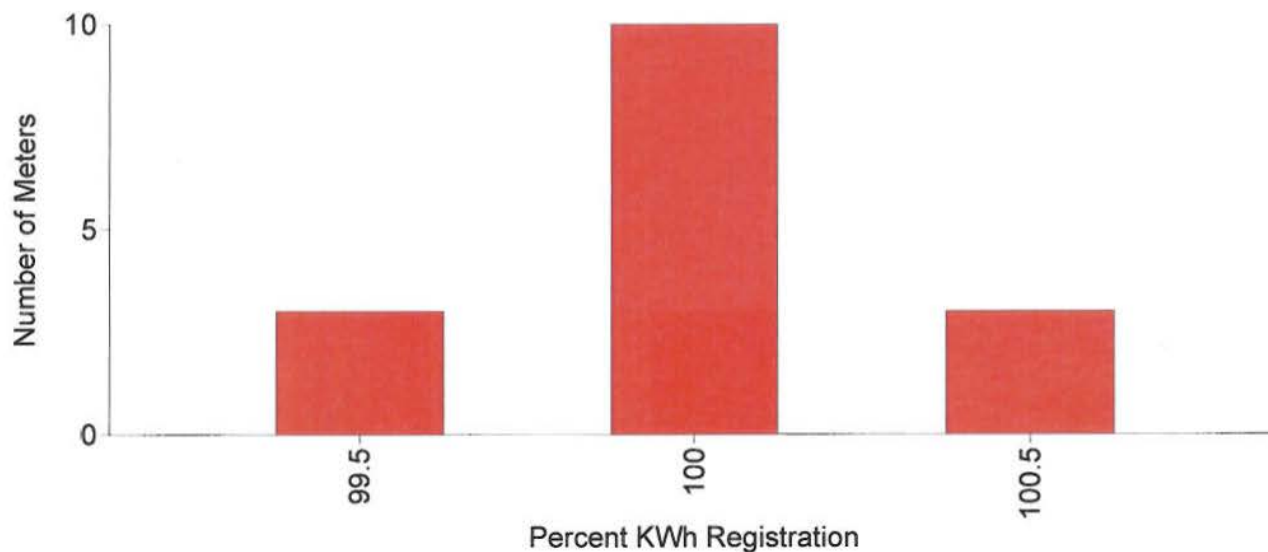
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 16

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 915 Meter Accuracies



Progress Energy - Carolinas

2011 SHOP PERIODIC

Watthour Meter Group 934 Summary

Group Information

Manufacturer: L&G

Watthour Meter Type(s): AXS4,AXS4E,AXRS4

PE Type Code(s): C10,C11,C12,C16,C17

Meter Classification: S*S3NI

Methodology: Periodic Test

Population: 3058

Sample Size: 201

Full Load Test Summary

Mean: 99.855

Standard Deviation: 2.3595

Number of Tests > 102%: 0

Number of Tests 98 - 102%: 200

Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 2

Histogram of Group 934 Meter Accuracies

